

# ***STIC Search Report***

**EIC 1700**

**STIC Database Tracking Number: 165283**

**TO: Eisa Elhilo  
Location: REM 9A60  
Art Unit : 1751  
September 23, 2005**

**Case Serial Number: 10/678635**

**From: Kathleen Fuller  
Location: EIC 1700  
REMSSEN 4B28  
Phone: 571/272-2505  
Kathleen.Fuller@uspto.gov**

## **Search Notes**

The structure query covered all the compounds of claim 47 and 84. There were 11 structures found and 1 CA reference from the 11 structures. The reference was the applicant.



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713
- Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

=> => FILE REG

FILE 'REGISTRY' ENTERED AT 16:12:55 ON 23 SEP 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2005 HIGHEST RN 863708-11-6

DICTIONARY FILE UPDATES: 22 SEP 2005 HIGHEST RN 863708-11-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> FILE HCAPL

FILE 'HCAPLUS' ENTERED AT 16:13:04 ON 23 SEP 2005

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FILE COVERS 1907 - 23 Sep 2005 VOL 143 ISS 14

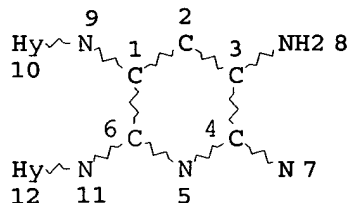
FILE LAST UPDATED: 22 Sep 2005 (20050922/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE

L3 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 7  
CONNECT IS E2 RC AT 9  
CONNECT IS E2 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS M1 N AT 10  
ECOUNT IS M1 N AT 12

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L5 11 SEA FILE=REGISTRY SSS FUL L3  
L7 1 SEA FILE=HCAPLUS ABB=ON L5

=> D BIB ABS IND HITSTR L7

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:291093 HCAPLUS  
DN 140:326608  
TI New trinuclear heteroaromatic direct black dyes  
IN Kravtchenko, Sylvain; Lagrange, Alain; David, Herve; Greaves, Andrew;  
Bonaventure, Nicole; Vidal, Laurent  
PA L'Oreal, Fr.  
SO Fr. Demande, 49 pp.  
CODEN: FRXXBL  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2845387	A1	20040409	FR 2002-12385	20021004
	FR 2845387	B1	20050121		
	WO 2004031173	A1	20040415	WO 2003-FR2927	20031006
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005060815 A1 20050324 'US 2003-678635 20031006  
EP 1551825 A1 20050713 EP 2003-775473 20031006

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRAI FR 2002-12385 A 20021004  
US 2002-431749P P 20021209  
WO 2003-FR2927 W 20031006

OS MARPAT 140:326608

AB New trinuclear heteroarom. direct dyes, the hair dye compns. containing these dyes as well as the process of dyeing of keratinous fibers are disclosed. The trinuclear heteroarom. direct black dyes comprise a pyridin core. The new dyes make it possible to obtain black nuances which have a good tenacity and stability in the hair dye compns. Thus, 3-amino-7-diethylaminopyrazolopyrimidine was reacted with 2-pyrrolidino-3-amino-6-methoxypyridine to obtain a trinuclear heteroarom. direct dye. Formulation of a dye containing 0.5% of above dye is disclosed.

IC ICM C07D471-04  
ICS C07D401-14; A61K007-13; C07D231-38; C07D213-02; C07D239-42; C07D213-74; C07D209-40; C07D241-04; C07D213-90

CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 28

ST trinuclear heteroarom direct black dye pyrazolopyrimidine pyrrolidinopyridine

IT Dyes  
(direct; new trinuclear heteroarom. direct black dyes)

IT Hair preparations  
(dyes, oxidative; new trinuclear heteroarom. direct black dyes)

IT 677314-81-7 677314-82-8 677314-83-9 677314-84-0  
677314-85-1 677314-86-2 677314-87-3 677314-88-4  
677314-89-5  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(new trinuclear heteroarom. direct black dyes)

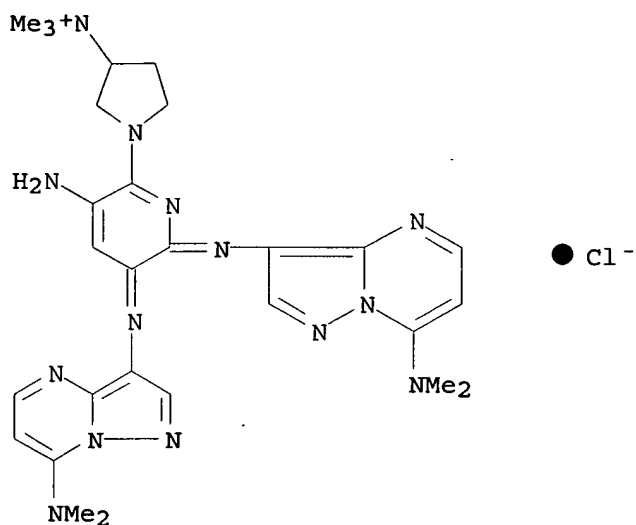
IT 677314-72-6P 677314-74-8P 677314-75-9P  
677314-76-0P 677314-77-1P 677314-78-2P  
677314-79-3P 677314-80-6P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(new trinuclear heteroarom. direct black dyes)

IT 1004-74-6, Pyrimidinetetramine 28020-38-4, 2,3-Diamino-6-methoxypyridine 90817-35-9 137837-55-9, Pyrazolo[1,5-a]pyridin-3-amine 184172-99-4 676609-40-8 677314-73-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(new trinuclear heteroarom. direct black dyes)

IT 677314-84-0 677314-85-1  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(new trinuclear heteroarom. direct black dyes)

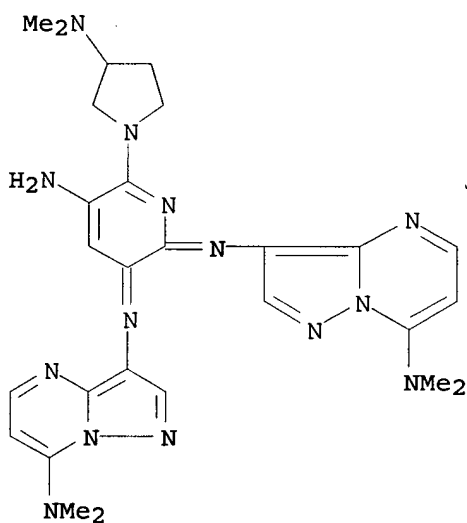
RN 677314-84-0 HCAPLUS

CN 3-Pyrrolidinanium, 1-[3-amino-5,6-bis[[7-(dimethylamino)pyrazolo[1,5-a]pyrimidin-3-yl]imino]-5,6-dihydro-2-pyridinyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 677314-85-1 HCAPLUS

CN Pyrazolo[1,5-a]pyrimidine-3,7-diamine, N3,N3'-[5-amino-6-[3-(dimethylamino)-1-pyrrolidinyl]-2,3-pyridinediylidene]bis[N7,N7-dimethyl-(9CI) (CA INDEX NAME)



IT 677314-72-6P 677314-74-8P 677314-75-9P

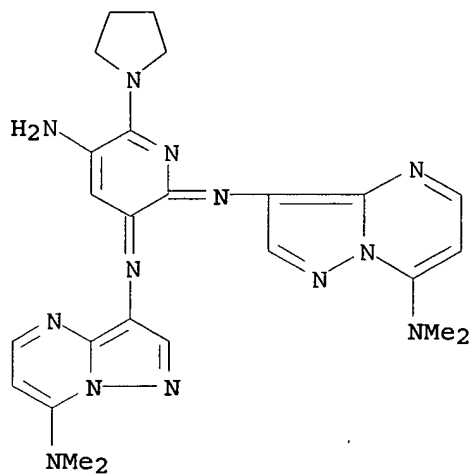
677314-76-0P 677314-77-1P 677314-78-2P

677314-79-3P 677314-80-6P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(new trinuclear heteroarom. direct black dyes)

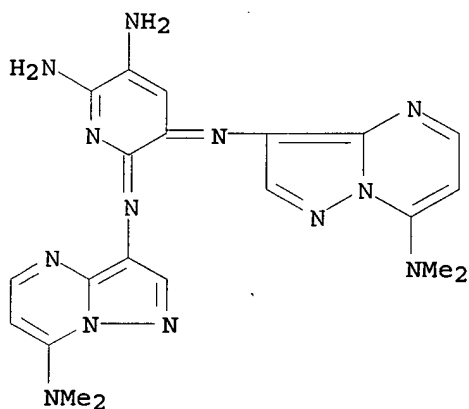
RN 677314-72-6 HCAPLUS

CN Pyrazolo[1,5-a]pyrimidine-3,7-diamine, N3,N3'-[5-amino-6-(1-pyrrolidinyl)-2,3-pyridinediylidene]bis[N7,N7-dimethyl-(9CI) (CA INDEX NAME)



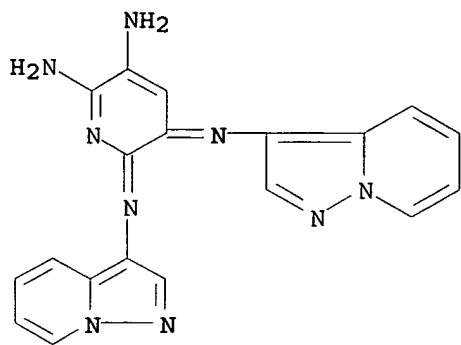
RN 677314-74-8 HCAPLUS

CN Pyrazolo[1,5-a]pyrimidine-3,7-diamine, N3,N3'-(5,6-diamino-2,3-pyridinediylidene)bis[N7,N7-dimethyl- (9CI) (CA INDEX NAME)



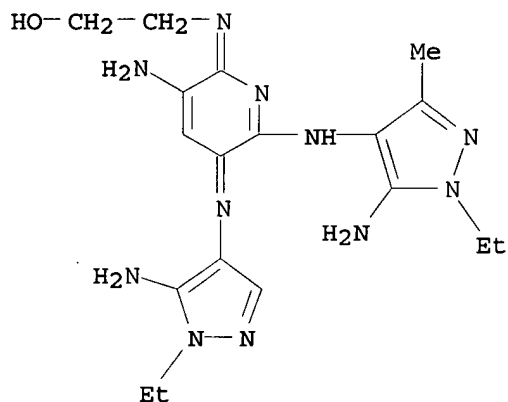
RN 677314-75-9 HCAPLUS

CN 2,3-Pyridinediamine, 5,6-dihydro-5,6-bis(pyrazolo[1,5-a]pyridin-3-ylimino) - (9CI) (CA INDEX NAME)



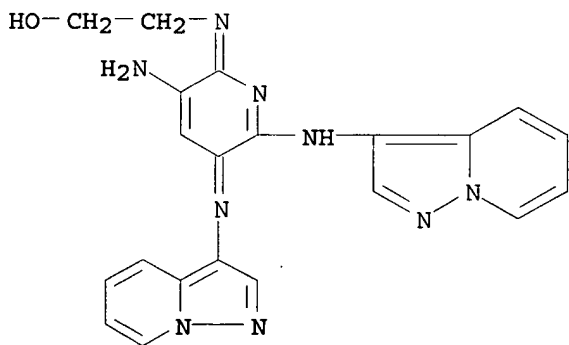
RN 677314-76-0 HCAPLUS

CN    Ethanol, 2-[[3-amino-6-[(5-amino-1-ethyl-3-methyl-1H-pyrazol-4-yl)imino]-5-  
 [(5-amino-1-ethyl-1H-pyrazol-4-yl)imino]-5,6-dihydro-2-pyridinyl]amino]-  
 (9CI)    (CA INDEX NAME)



RN 677314-77-1 HCAPLUS

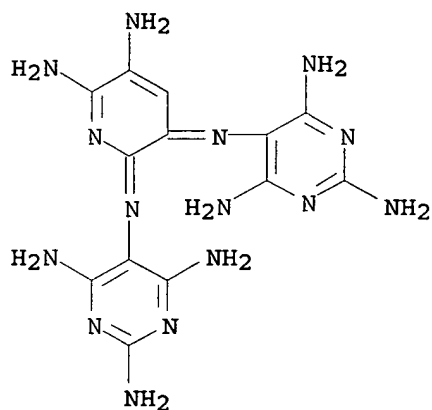
CN    Ethanol, 2-[[3-amino-5,6-dihydro-5,6-bis(pyrazolo[1,5-a]pyridin-3-ylimino)-2-pyridinyl]amino]- (9CI)    (CA INDEX NAME)



RN 677314-78-2 HCAPLUS

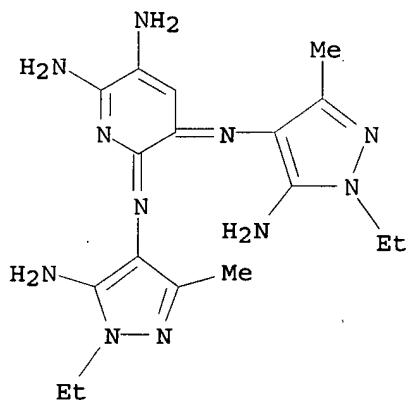


CN Pyrimidinetetramine, N5,N5'-(5,6-diamino-2,3-pyridinediylidene)bis- (9CI)  
(CA INDEX NAME)



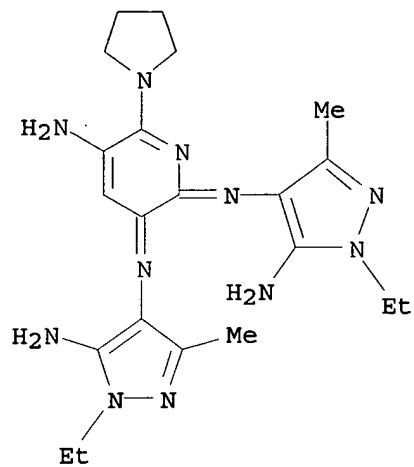
RN 677314-79-3 HCAPLUS

CN 2,3-Pyridinediamine, 5,6-bis[(5-amino-1-ethyl-3-methyl-1H-pyrazol-4-yl)imino]-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 677314-80-6 HCAPLUS

CN 1H-Pyrazole-4,5-diamine, N4,N4'-[5-amino-6-(1-pyrrolidinyl)-2,3-pyridinediylidene]bis[1-ethyl-3-methyl- (9CI) (CA INDEX NAME)



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